

PRODUCT SHEET

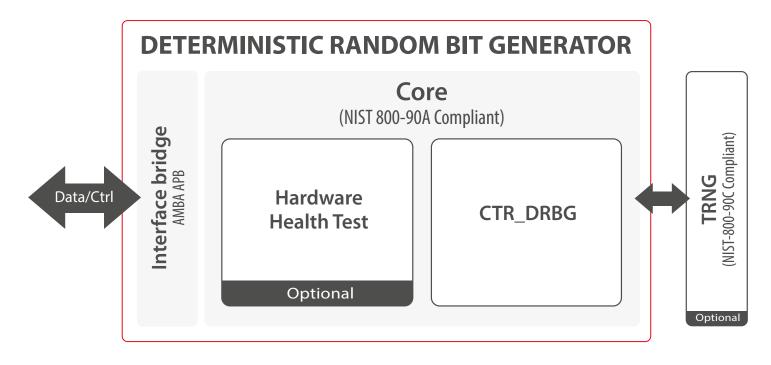
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DETERMINISTIC RANDOM BIT GENERATOR (DRBG)

The Deterministic Random Bit Generator is an essential silicon-proven digital IP core for all FPGA, ASIC and SoC designs that targets cryptographically secured applications. It is a deterministic algorithm compliant with the NIST-800-90A Rev1. The IP Core successfully passed NIST-800-90A Rev1 test suites and it is compliant with the FIPS-140-2 validation.

Random number generation is critical for any secure device. Random numbers are used for key generation, key exchange, digital signature, encryption and more. Typical secure protocols like IPsec, MACsec, TLS/SSL or wireless use them during authentication/ key exchange and data streaming phases.

The Deterministic Random Bit Generator can be provided with the True Random Number Generator (TRNG) to have a full FIPS 140-2 compliant Random number Generator (NIST 800-90A/B/C). Convenient AMBA APB interface is used for both control and data transfer.



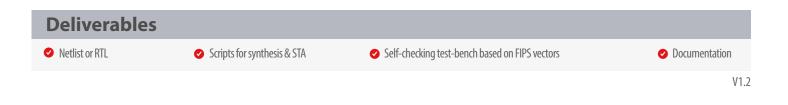


Software Support

Linux drivers are available to ease the integration in Linux OS. The Linux driver provides direct access to the true random number generator through "/dev/random". Software driver for micro-controller application is also available to ease the control of the random generator.

Technology

The entropy source is completely digital without any specific technology-dependent implementation. It makes it easy to port it to any technology (all ASIC nodes, Intel and Xilinx FPGA families). The random generator has been used in many ASIC and FPGA designs. Products from our customers have also passed FIPS 140-2 validation.





HEADQUARTERS

Digital Park B - ZAC Atalante Via Silva 801 avenue des Champs Blancs 35510 Cesson-Sévigné - France +33 (0)2 99 12 18 72 - contact@secure-ic.com EMEA sales-EMEA@secure-ic.com

> AMERICAS sales-US@secure-ic.com

APAC sales-APAC@secure-ic.com JAPAN sales-JAPAN@secure-ic.com

CHINA sales-CHINA@secure-ic.com CONTACT US

www.secure-ic.com